

Contract #66667

GENERAL NOTES

This box culvert has a design fill height of 3.1 feet. The Precast Concrete Box Culvert sections shall conform to the requirements of AASHTO M-259.

Reinforcement bars designated (E) shall be epoxy coated.

Reinforcement bars shall conform to the requirements of ASTM A706

Gr 60 (IL Modified). See Special Provisions

Layout of slope protection system may be varied in the field to suit

ground conditions as directed by the Engineer.

Excavation behind existing abutment walls shall be performed to

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

ć = 3,500 psi

 f_y = 60,000 psi (reinforcement) f_y = 36,000 psi (soldier piles)

PRECAST UNITS

 $f_c' = 5.000 \text{ psi}$

 f_y = 65,000 psi (welded wire fabric)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1
Concrete Structures	Cu. Yd.	26.2
Stud Shear Connectors	Each	273
Untreated Timber Lagging	Sq. Ft.	470
Furnishing Soldier Piles (HP Section)	Foot	465
Reinforcement Bars, Epoxy Coated	Pound	13,400
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	64.8
Precast Concrete Box Culvert 10'x8'	Foot	90
Geocomposite Wall Drain	Sq. Yd.	52
Steel Plate Beam Guardrail, Attached To Structures	Foot	68
Geotextile Retaining Wall	Sq. Ft.	76
Temporary Soil Retention System	Sq. Ft.	470
Driving Soldier Piles	Foot	302

GENERAL PLAN & ELEVATION

U.S. RTE. 52 OVER WEST AUX SABLE CREEK

F.A.P. 607 - SECTION 129BR

KENDALL COUNTY

STATION 108+07

STRUCTURE NO. 047-2019